



State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-3406 FAX (603) 271-7894



Mr. Bill Cooper
Calef Lake Camping Area
556 Chester Road, Rte 121
Auburn, NH 03032

April 25, 2002
Letter of Deficiency
DAM #013.12

RE: Calef Pond Dam, Auburn

Dear Mr. Cooper:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on April 2, 2002. During this visual inspection and/or file review, the following deficiencies were observed:

There is soil erosion on the upstream face of the right embankment at the contact of the right end of the concrete upstream face with the earth embankment;

2. The condition of the two low level gates is unknown;
3. The rip rap protection on the left downstream face of the embankment is sparse;
4. There is soil erosion on the crest of the dam located adjacent to the left downstream end of the spillway discharge channel at the top of the block retaining wall; and
5. The dam does not have adequate discharge capacity to pass the design event with a minimum of one foot of freeboard, however, overtopping protection has been installed on the downstream face of the dam.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

July 1, 2002:

1. Repair the soil erosion located on the upstream face of the right embankment at the contact of the right end of the concrete upstream face and the earth embankment;
2. Investigate and report on the operability of the two low level gates;
3. Install additional rip rap protection on the left downstream face of the embankment where the rip rap is currently sparse;
4. Repair the soil erosion on the crest of the dam located adjacent to the left downstream end of the spillway discharge channel at the top of the concrete block retaining wall; and

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5. Since the hydrologic/hydraulic analysis indicates the possibility of almost 2 feet of overtopping during the 50 year event, it is recommended that the rip rap embankment protection be monitor and enhanced as needed. In addition, it is recommended that the fence placed across the dam crest be removed entirely or raised to allow efficient overtopping.

In addition, DES noted that there is no security device in place to prevent unauthorized removal of the stoplog boards. DES recommends you install security measures to prevent unauthorized persons from removing the boards.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

COPY

Jeffrey M. Blaney
Dam Safety Engineer

Attachments DB13

cc: Gretchen Rule✓

Town of Auburn

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JMB/was/h:/safety/wendy/lod/013-12lod.doc